

FIG. 1

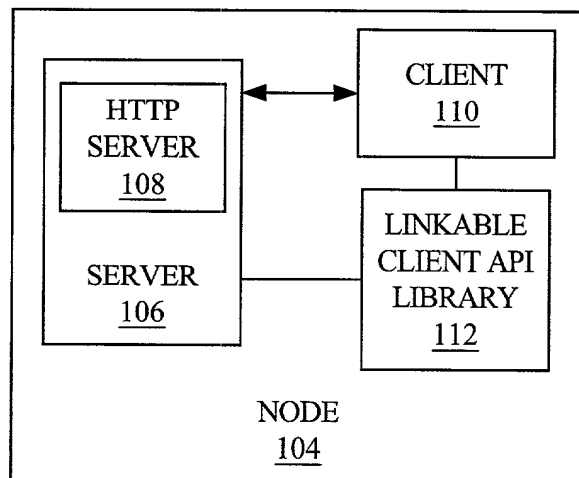


FIG. 2

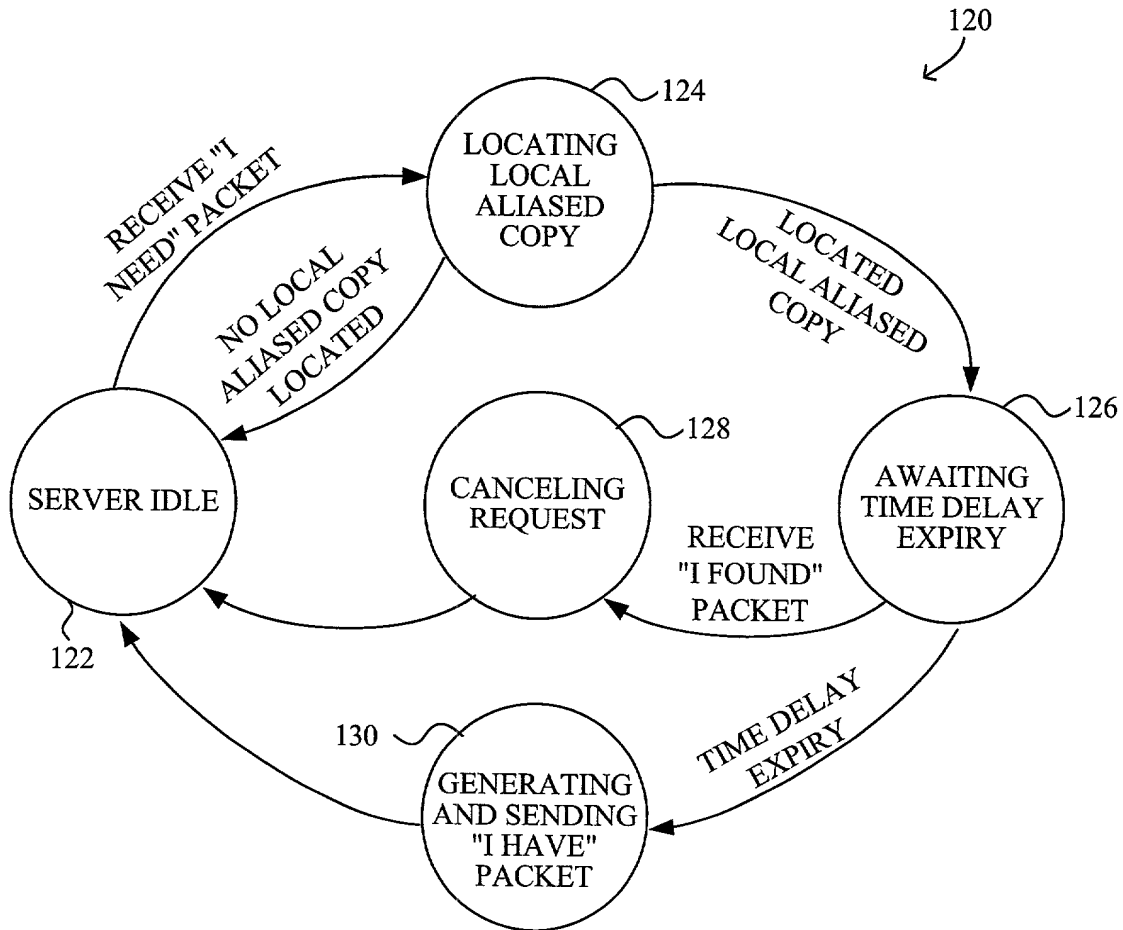


FIG. 3

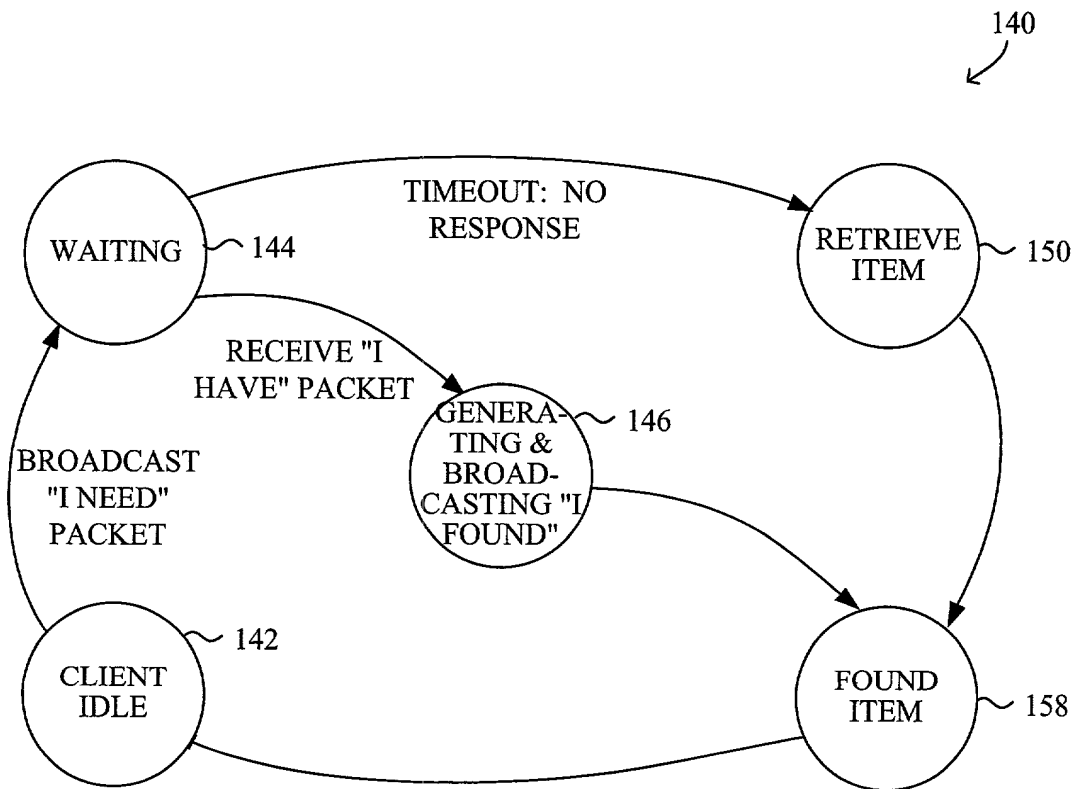


FIG. 4A

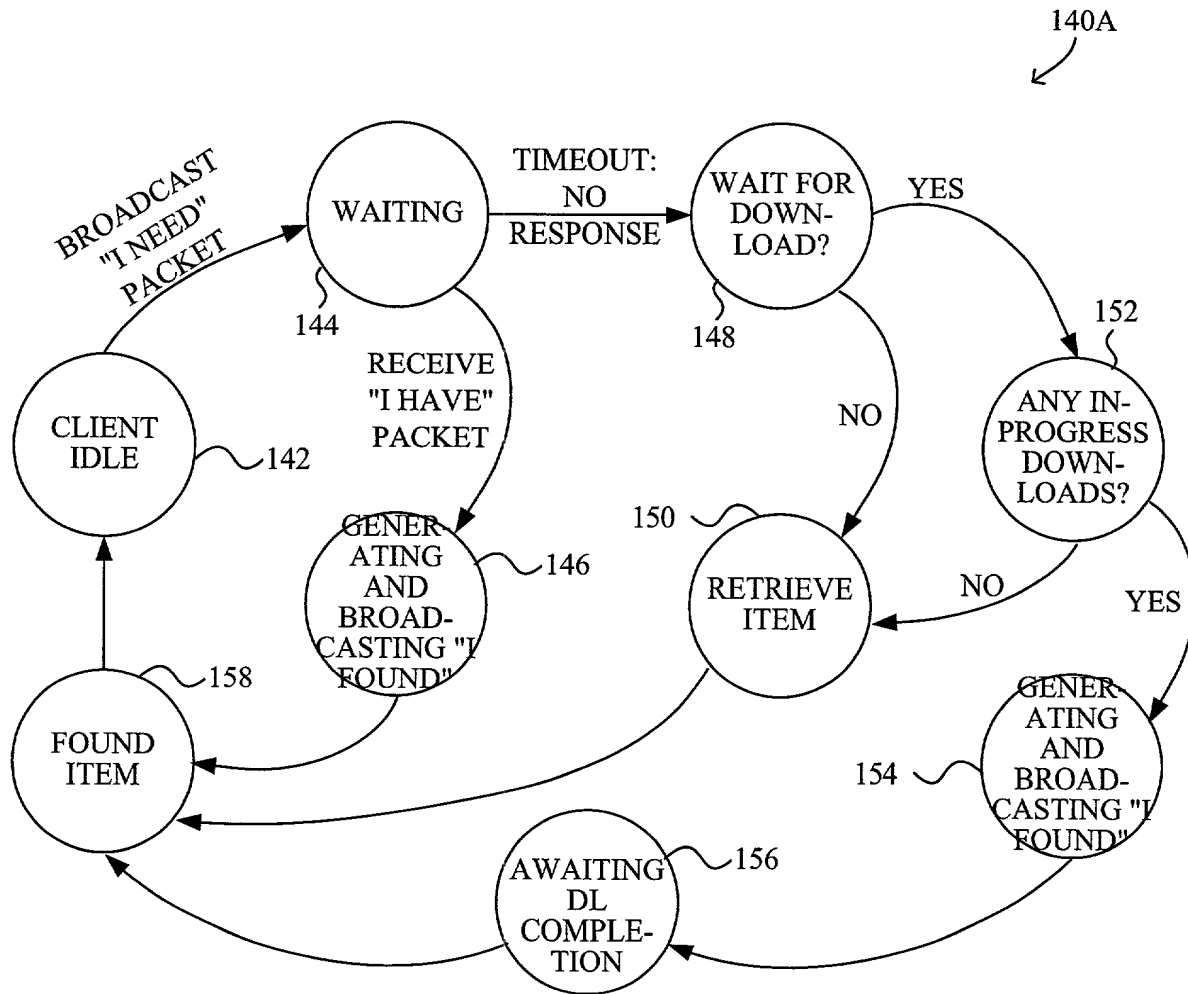


FIG. 4B

5/10

START

180

LISTEN ON A DESIGNATED PORT OF A SERVICE SERVER FOR A BROADCAST  
REQUEST MESSAGE FROM A PEER CLIENT ON THE NETWORK

~182

RECEIVE A BROADCAST REQUEST MESSAGE ON THE DESIGNATED PORT  
FROM A PEERING CLIENT ON THE NETWORK

~184

DOES  
SERVICE SERVER HAVE A  
LOCAL ALIASED COPY OF THE  
REQUESTED  
ITEM?

~186

No

Yes

AWAIT A RANDOMLY GENERATED DELAY RESPONSE PERIOD AND LISTEN  
FOR BROADCAST "I FOUND" PACKET FROM REQUESTING CLIENT  
CORRESPONDING TO RECEIVED REQUEST PACKET

~188

RECEIVE "I  
FOUND" PACKET

190

192

EXPIRY OF DELAY  
RESPONSE PERIOD

CANCEL RESPONSE TO REQUEST

TRANSMIT "I HAVE" PACKET TO  
REQUESTING PEER CLIENT

END

FIG. 5

6/10

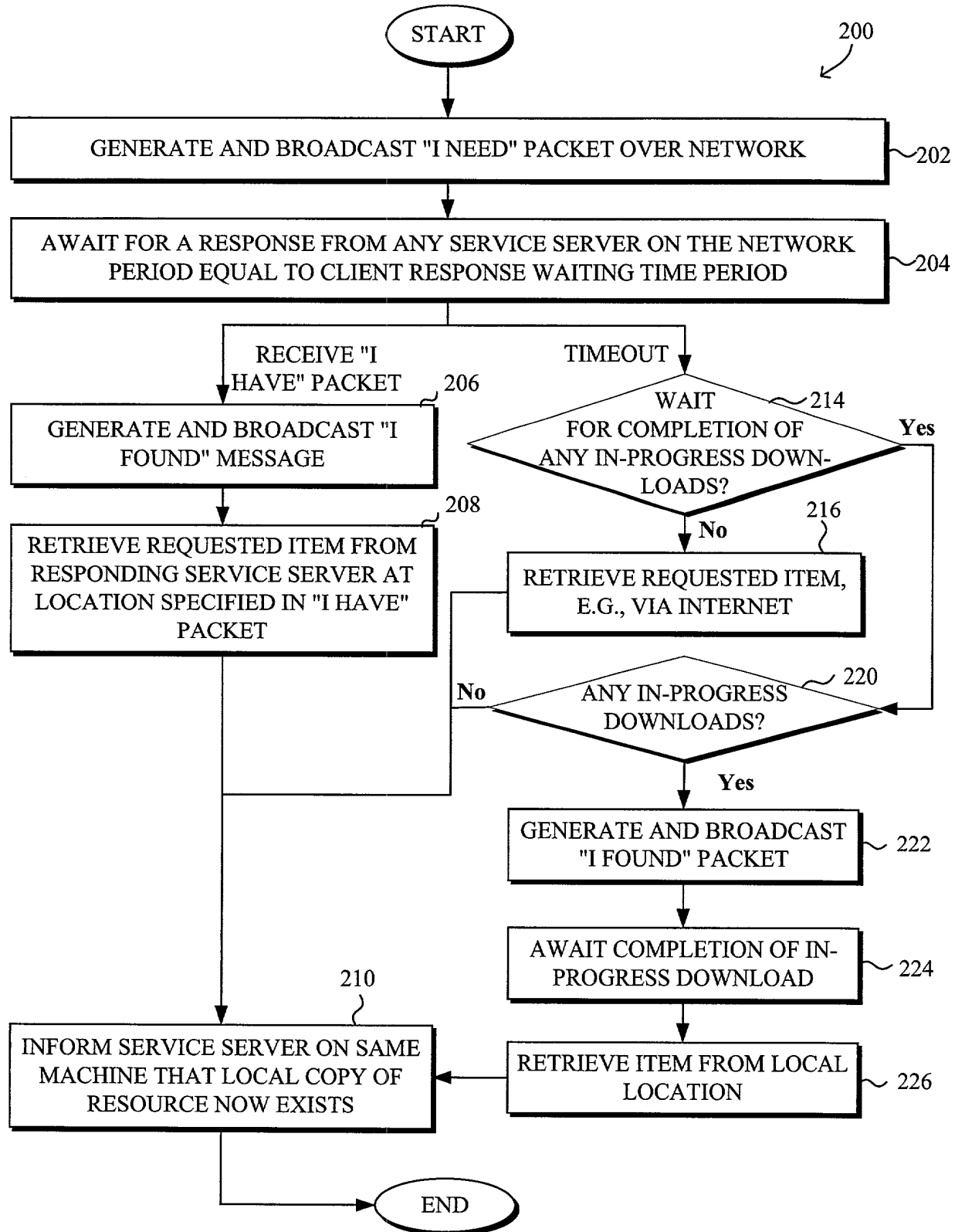


FIG. 6

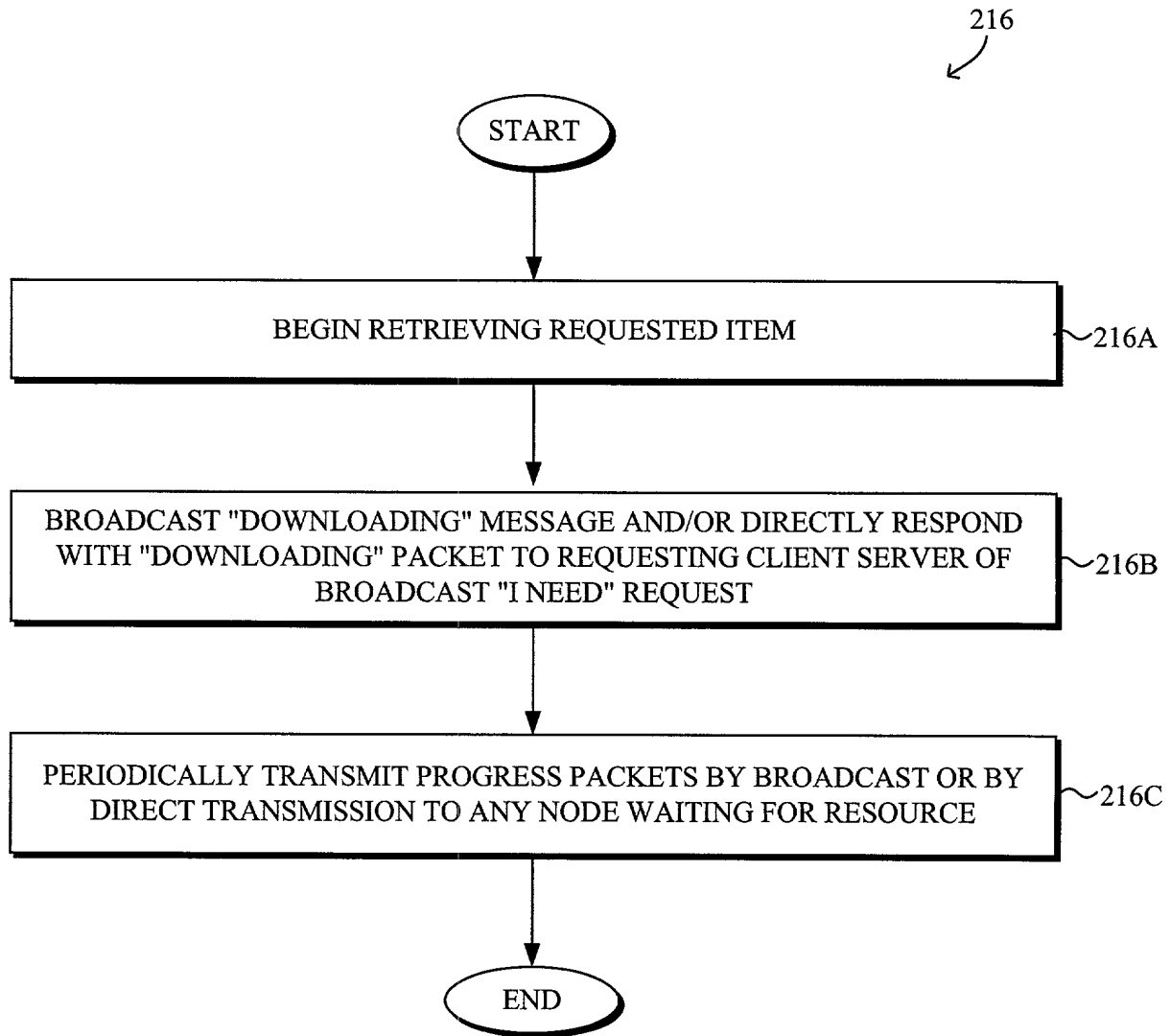


FIG. 7

500  
↙

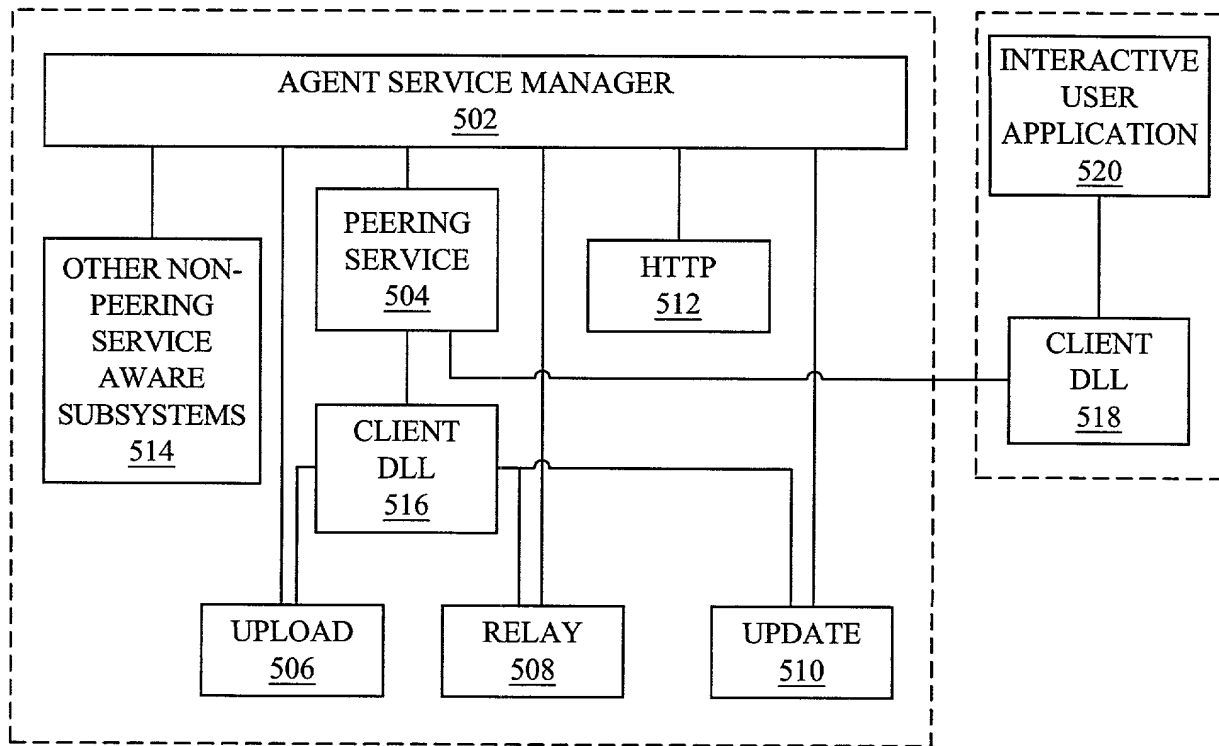


FIG. 8



9/10

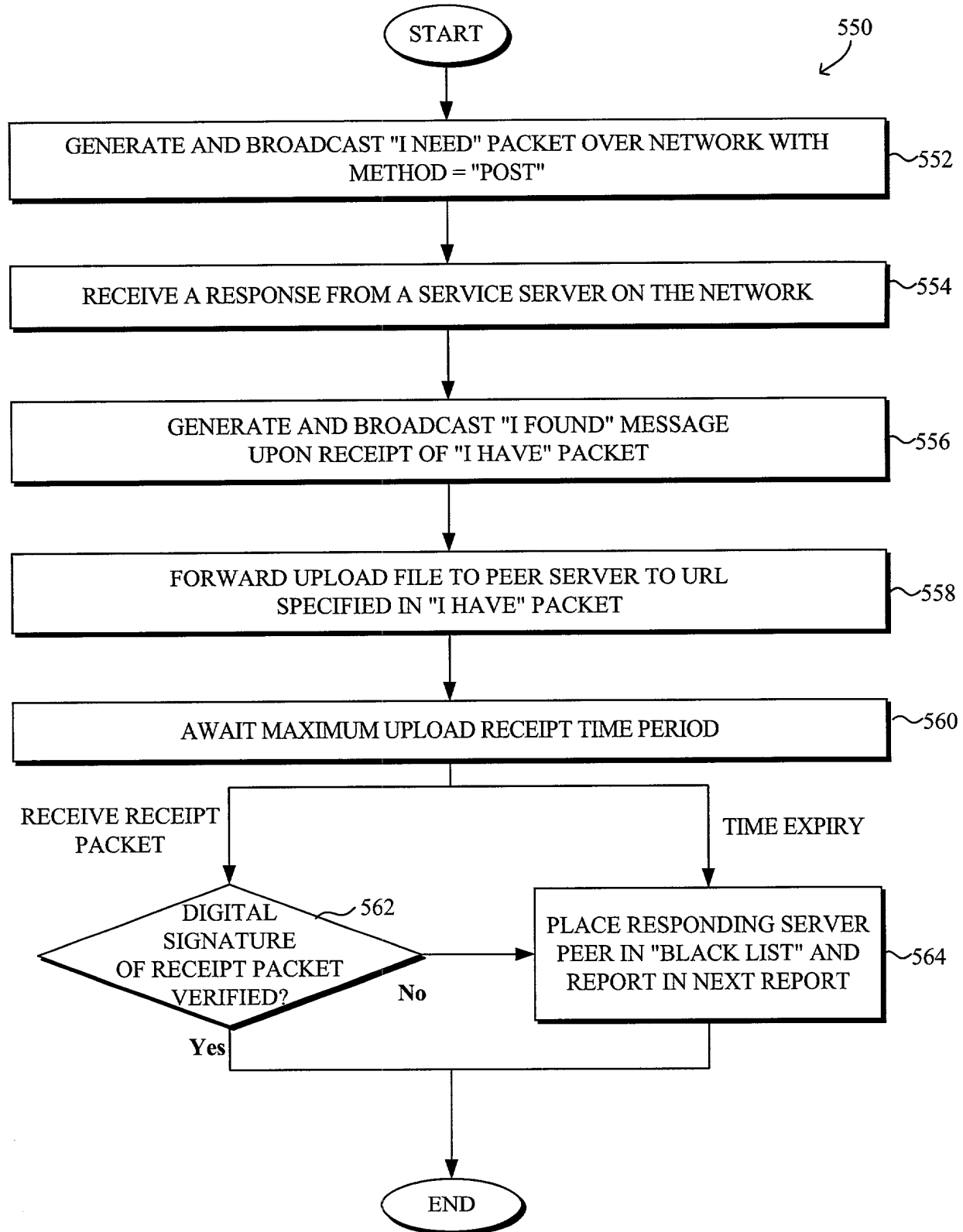


FIG. 9

10/10

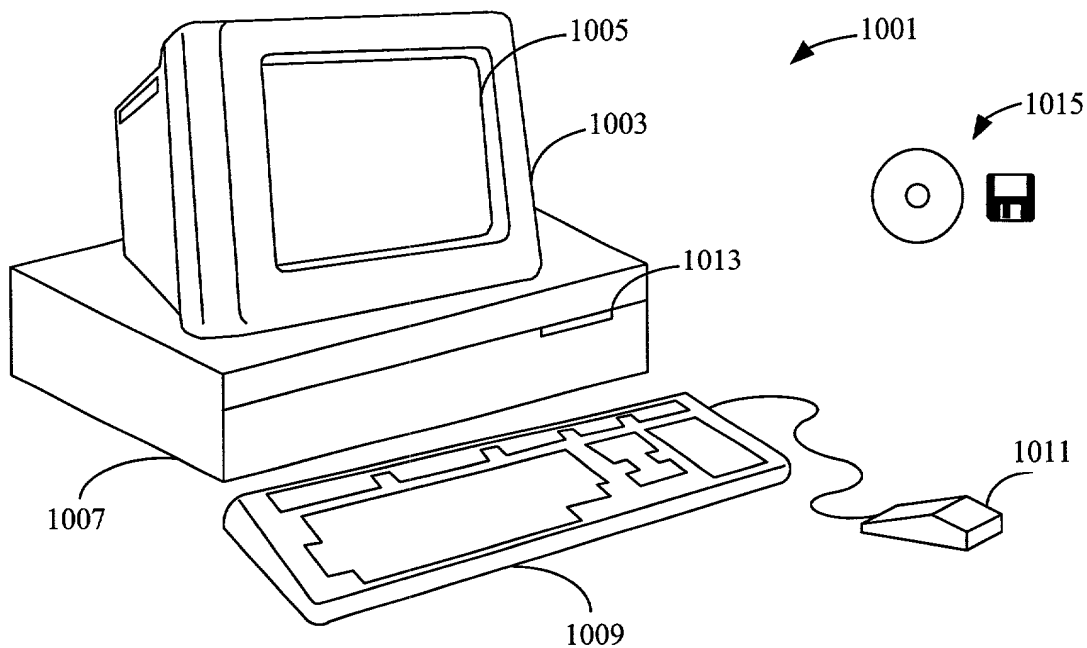


FIG. 10

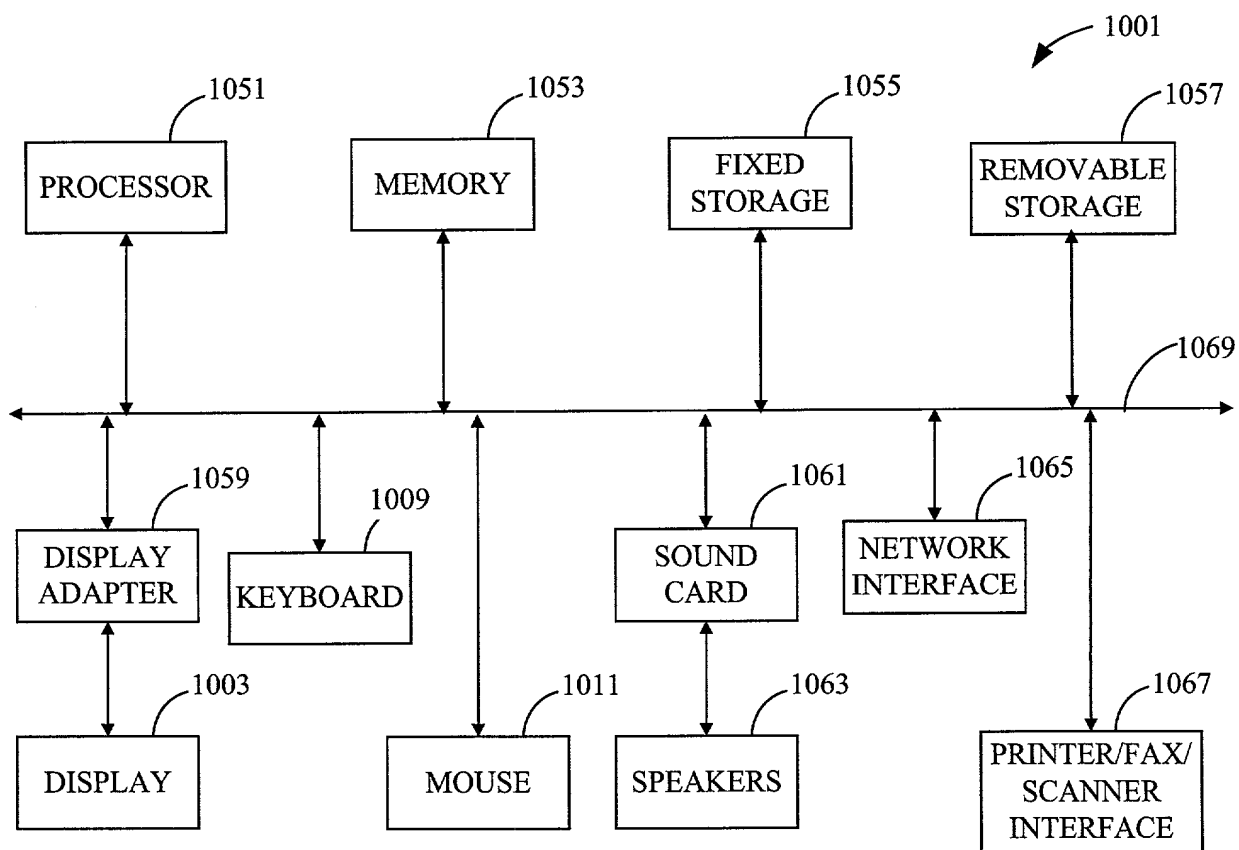


FIG. 11